INDEX

ADSORBENTS, effect of, on thiamine. Physiological availability of the vitamins. VI. 233
Adult dogs, prolonged maintenance of, on purified diets, studies on 111
—— human subjects, protein requirements of, in terms of the protein contained in individual foods and food combinations 269
Age and diet, bodily storage of vitamin A in relation to, studied by means of the antimony trichloride reaction using a photoelectric colorimeter 349
—— —— —— —— —— —— —— —— —— —— —— —— —— the assay method of single feedings 343
Albino rats, male, ascorbic acid excretion, acidity of urine, and survival of, effects of food intake and anoxia upon 99
Alcohol metabolism as related to the production of thiamine deficiency 127
Amino acids, certain, administration of, study of hemoglobin formation following to, rats fed a diet low in protein 137
ANDERSON, RICHMOND K., AND DANIEL F. MILAM. Biomicroscopy of the eyes in evaluation of nutritional status. Conjunctival changes 11
—— —— —— —— —— —— —— —— —— —— —— —— —— —— —— —— —— Corneal vascularization 17
Anemic rats, comparative effectiveness of various iron compounds in promoting iron retention and hemoglobin regeneration by 293
Anoxia and food intake, effects of, upon ascorbic acid excretion, acidity of urine, and survival of male albino rats 99
Antimony trichloride reaction, bodily storage of vitamin A in relation to diet and age, using a photoelectric colorimeter, studied by means of 349
Antrum, lesions of. Nutritional effects on the gastric mucosa of the rat. I. 301
Ariboflavinosis, light, trauma, and riboflavin, effects of, on the production of corneal vascularity and on healing of corneal lesions 285
Ascorbic acid, availability of, in papayas and guavas 355
—— —— content and consistency characteristics of tomato juice, effect of manufacturing methods on 435
—— —— —— of tomatoes received at the cannery, factors in determining, field illumination and commercial handling as 425
—— —— excretion, acidity of urine, and survival of male albino rats, effects of food intake and anoxia upon 99
—— —— extra dietary, effect of copper on. Physiological availability of the vitamins. V. 225
—— —— influence of, on the activity of gonadotropic hormones in guinea pigs 477
—— —— oxidase, dietary, effect of. Physiological availability of the vitamin. III. 193
Assay method of single feedings, bodily storage of vitamin A in relation to diet and age, studied by 343
Availability of ascorbic acid in papayas and guavas 355
—— —— soybean oil meal phosphorus for the rat 117
—— —— the iron in Hawaiian-grown vegetables 485
—— physiological, of the vitamins. VI. The effect of adsorbents on thiamine 233
—— —— —— —— —— V. The effect of copper on extra dietary ascorbic acid 225
—— —— —— —— —— III. The effect of dietary ascorbic acid oxidase 193
—— —— —— —— —— II. The effect of dietary thiaminase in fish products 81
—— —— —— —— —— I. The human bioassay technic 67
—— —— —— —— —— IV. The inefficiency of live yeast as a source of thiamine 201
—— —— to the rat of crude carotene in vegetables 385

BACONS and hams, overseas, preparation of, thiamine, riboflavin and nicotinic acid retention in 25
BEATH, O. A. See Rosenfeld and Beath 443
BENTLEY, LILLIAN S., AND AGNES F. MORGAN. Vitamin A and carotene in the nutrition of the guinea pig 159
BERG, BENJAMIN N. See Zucker, Berg and Zucker 301
—— —— —— —— —— —— —— —— 319
BESSEY, OTTO A. See Lowry and Bessey 285
Bioassay technic, human. Physiological availability of the vitamins. I. 67
Biomicroscopy of the eyes in evaluation of nutritional status. Conjunctival changes 11
—— —— —— —— —— —— —— —— —— Corneal vascularization 17
Bodily storage of vitamin A in relation to diet and age, studied by means of the antimony trichloride reaction using a photoelectric colorimeter 349
—— —— —— —— —— —— —— —— —— the assay method of single feedings 343
BRICKER, MILDRED L., HAROLD H. MITCHELL AND GLADYS M. KINSMAN. The protein requirements of adult human subjects in terms of the protein contained in individual foods and food combinations 269
BURRILL, MARIE W. See Freeman and Burrill 293

CALCIUM metabolism of preschool children 259
CALDWELL, ANNE B., GRACE MACLEOD AND HENRY C. SHERMAN. Bodily storage of vitamin A in relation to diet and age, studied by means of the antimony trichloride reaction using a photoelectric colorimeter 349
Calves, vitamin A requirements in 467
CAMPBELL, HARRIET L., MADELINE UDILJAK, HELEN YARMOLINSKY AND HENRY C. SHERMAN. Bodily storage of vitamin A in relation to diet and age, studied by the assay method of single feedings 343
Cannery, tomatoes received at, ascorbic acid content of, field illumination and commercial handling as factors in determining 425
Carbohydrate, dietary supply of, effects of, upon the response of the human respiratory quotient after glucose administration 333
Carotene and vitamin A in the nutrition of the guinea pig 159
—— crude, in vegetables, physiological availability to the rat of 385
CARPENTER, THORNE M. See Root and Carpenter 333
Cattle, dairy, poikilocytosis in, therapeutic effect of yeast and pyridoxine on 413
CHELDELIN, VERNON H. See Sarett and Cheldelin 25
Chemical methods, estimation of the relative nutritive value of vegetable proteins by two 209
Chicks, diet of, observations on monomethylaminoethanol and dimethylaminoethanol in 219
Children, preschool, calcium metabolism of 259

Commercial handling and field illumination as factors in determining the ascorbic acid content of tomatoes received at the cannery 425
Comparative effectiveness of various iron compounds in promoting iron retention and hemoglobin regeneration by anemic rats 293
—— merits of fasting specimens, random specimens and oral loading tests in field nutritional surveys 89
Conjunctival changes. Biomicroscopy of the eyes in evaluation of nutritional status 11
CONSOLAZIO, FRANK C. See Johnson, Henderson, Robinson and Consolazio 89
COOPERMAN, JACK M., HARRY A. WAISMAN, KEITH B. MCCALL AND CONRAD A. ELVEHJEM. Studies on the requirements of the monkey for riboflavin and a new factor found in liver 45
Copper, effect of, on extra dietary ascorbic acid. Physiological availability of the vitamins. V. 225
Corneal lesions, healing of, and production of corneal vascularity, effects of light, trauma, riboflavin, and ariboflavinosis on 285
—— vascularization. Biomicroscopy of the eyes in evaluation of nutritional status 17

DAIRY cattle, poikilocytosis in, therapeutic effect of yeast and pyridoxine on 413
DANIEL, LOUISE J., AND LEO C. NORRIS. The riboflavin, niacin and thiamine content of dried leguminous seeds 31
Deficiency, pyridoxine. Nutritional studies with the duck. II. 367
—— thiamine, production of, alcohol metabolism as related to 127
Diet and age, bodily storage of vitamin A in relation to, studied by means of the antimony trichloride reaction using a photoelectric colorimeter 349
—— —— —— —— —— —— —— —— the assay method of single feedings 343
—— fat-free, supplements to, milk fat and certain synthetic glycerides as, growth of young rats fed. Nutritional studies on milk fat. I. 169
—— low in protein, rats fed, administration of certain amino acids to, study of hemoglobin formation following 137
—— of chicks, observations on monomethylaminoethanol and dimethylaminoethanol in 219
Dietary ascorbic acid, extra, effect of copper on. Physiological availability of the vitamins. V. 225
—— —— —— oxidase, effect of. Physiological availability of the vitamins. III. 193
—— supply of carbohydrate, effects of, upon the response of the human respiratory quotient after glucose administration 333
—— thiaminase, effect of, in fish products. Physiological availability of the vitamins. II. 81
Diets, purified, adult dogs on, studies on the prolonged maintenance of 111
Dimethylaminoethanol and monomethylaminoethanol, observations on, in the diet of chicks 219
Distillers' dried solubles, nutritive value of, as a source of protein 245
Distribution and elimination of selenium in the tissues in experimental selenium poisoning 443
Dogs, adult, prolonged maintenance of, on purified diets, studies on 111
DOISY, EDWARD A., JR. See Westerfeld and Doisy 127
DORNBUSH, ALBERT C. See Jukes, Oleson and Dornbush 219
Dried solubles, distillers', nutritive value of, as a source of protein 245
Duck, nutritional studies with. I. Purified rations for the duck 37
—— —— —— —— II. Pyridoxine deficiency 367
DUNCAN, C. W. See Reid, Huffman and Duncan 413

EFFECT(S) of fat upon the utilization of galactose by the rat 147
—— —— food intake and anoxia upon ascorbic acid excretion, acidity of urine, and survival of male albino rats 99
—— —— genetic variation in the fowl on the thiamine content of the egg 375
—— —— light, trauma, riboflavin, and ariboflavinosis on the production of corneal vascularity and on healing of corneal lesions 285
—— —— manufacturing methods on the ascorbic acid content and consistency characteristics of tomato juice 435
—— —— soybean phosphatides on vitamin A metabolism 239
—— —— the dietary supply of carbohydrate upon the response of the human respiratory quotient after glucose administration 333
Egg, thiamine content of, genetic variation in the fowl on, effect of 375
Elimination and distribution of selenium in the tissues in experimental selenium poisoning 443
ELVEHJEM, CONRAD A. See Cooperman, Waisman, McCall and Elvehjem 45
—— —— —— —— Pavcek, Herbst and Elvehjem 1
Enzymatic relationships in the utilization of soybean oil meal phosphorus by the rat 183
Estimation of the relative nutritive value of vegetable proteins by two chemical methods 209
EVANS, ROBERT J., AND JAMES L. ST. JOHN. Estimation of the relative nutritive value of vegetable proteins by two chemical methods 209
Experimental rickets in the hamster 143
Eyes, biomicroscopy of, in evaluation of nutritional status. Conjunctival changes 11
—— —— —— —— —— —— —— —— Corneal vascularization 17

FACTOR, new, found in liver, and riboflavin, studies on the requirements of monkey for 45
Fat, effect of, upon the utilization of galactose by the rat 147
—— free diet, supplements to, milk fat and certain synthetic glycerides as, growth of young rats fed. Nutritional studies on milk fat. I. 169
—— —— nutritional studies on. II. The growth of young rats fed glyceride fractions separated from milk fat 175
—— —— —— —— —— I. The growth of young rats fed milk fat and certain synthetic glycerides as supplements to a fat-free diet 169
Field illumination and commercial handling as factors in determining the ascorbic acid content of tomatoes received at the cannery 425
Fish liver oil, women fed, milks of, secretion of vitamin D in 451
—— products, effect of dietary thiaminase in. Physiological availability of the vitamins. II. 81
FOLLIS, R. H., JR. See Wintrobe, Stein, Follis and Humphreys 395
Food combinations and individual foods, protein contained in, protein requirements of adult human subjects in terms of 269
—— intake and anoxia, effects of, upon ascorbic acid excretion, acidity of urine, and survival of male albino rats 99
Fowl, genetic variation in, effect of, on the thiamine content of the egg 375
FREEMAN, SMITH, AND MARIE W. BURRILL, with the technical assistance of Margaret Griesser. Comparative effectiveness of various iron compounds in promoting iron retention and hemoglobin regeneration by anemic rats 293
Fundus and rumen, lesions of. Nutritional effects on the gastric mucosa of the rat. II. 319

GALACTOSE, utilization of, by the rat, effect of fat upon ... 147
Gastric mucosa of the rat, nutritional effects on. I. Lesions of the antrum ... 301
—— —— —— —— —— —— —— II. Lesions of the fundus and rumen ... 319
Genetic variation, effect of, in the fowl on the thiamine content of the egg ... 375
Glucose administration, response of human respiratory quotient after, effects of the dietary supply of carbohydrate upon ... 333
Glyceride fractions separated from milk fat, growth of young rats fed. Nutritional studies on milk fat. II. ... 175
Glycerides, certain synthetic, and milk fat, growth of young rats fed, as supplements to a fat-free diet. Nutritional studies on milk fat. I. ... 169
Goiter studies with the rat ... 59
Gonadotropic hormones in guinea pigs, activity of, influence of ascorbic acid on ... 477
GRIESSER, MARGARET. See Freeman and Burrill ... 293
Growth of young rats fed glyceride fractions separated from milk fat. Nutritional studies on milk fat. II. ... 175
—— —— —— —— —— milk fat and certain synthetic glycerides as supplements to a fat-free diet. Nutritional studies on milk fat. I. ... 169
Guavas and papayas, ascorbic acid in, availability of ... 355
Guinea pig, nutrition of, vitamin A and carotene in ... 159
—— pigs, gonadotropic hormones in, activity of, influence of ascorbic acid on ... 477

HALVERSON, ANDREW W., JAMES H. SHAW AND EDWIN B. HART. Goiter studies with the rat ... 59
HAMNER, KARL C. See Somers, Hamner and Nelson ... 425
Hams and bacons, overseas, preparation of, thiamine, riboflavin and nicotinic acid retention in ... 25
Hamster, experimental rickets in ... 143
HART, EDWIN B. See Halverson, Shaw and Hart ... 59
HARTZLER, EVA RUTH. The availability of ascorbic acid in papayas and guavas ... 355
HATHAWAY, MILICENT L. See Watson, McGuire, Meyer and Hathaway ... 259
HAUGE, S. M. See Hughes and Hauge ... 245
Hawaiian-grown vegetables, availability of the iron in ... 485
Healing of corneal lesions and production of corneal vascularity, effects of light, trauma, riboflavin, and ariboflavinosis on ... 285
HEGSTED, DAVID M., AND MANTHRIPRAGADA M. RAO. Nutritional studies with the duck. II. Pyridoxine deficiency ... 367
—— —— —— —— FREDERICK J. STARE. Nutritional studies with the duck. I. Purified rations for the duck ... 37
Hemoglobin formation, study of, following the administration of certain amino acids to rats fed a diet low in protein ... 137
—— regeneration and iron retention, comparative effectiveness of various iron compounds in promoting, by anemic rats ... 293
HENDERSON, CHARLES R. See Johnson, Henderson, Robinson and Consolazio ... 89
—— JAMES L., EUGENE L. JACK, SAMUEL LEPKOVSKY AND DELLA F. REID. Nutritional studies on milk fat. I. The growth of young rats fed milk fat and certain synthetic glycerides as supplements to a fat-free diet ... 169
—— —— —— See Jack, Henderson, Reid and Lepkovsky ... 175
HERBST, EDWARD J. See Pavcek, Herbst and Elvehjem ... 1
HOCHBERG, MELVIN, DANIEL MELNICK AND BERNARD L. OSER. Physiological availability of the vitamins. V. The effect of copper on extra dietary ascorbic acid ... 225
—— —— —— —— —— —— —— III. The effect of dietary ascorbic acid oxidase ... 193
—— —— —— —— —— —— —— IV. The inefficiency of live yeast as a source of thiamine ... 201
—— —— See Melnick, Hochberg and Oser 67
—— —— —— —— —— —— —— ... 81
—— —— —— —— —— —— —— ... 233
HOGAN, ALBERT G. See Richardson, Hogan and Kempster ... 151
Hormones, gonadotropic, in guinea pigs, activity of, influence of ascorbic acid in ... 477
HUFFMAN, C. F. See Reid, Huffman and Duncan ... 413
HUGHES, CHARLES W., AND SIGFRED M. HAUGE. Nutritive value of distillers' dried solubles as a source of protein ... 245
Human bioassay technic. Physiological availability of the vitamins. I. ... 67
—— respiratory quotient, response of, after glucose administration, effects of the dietary supply of carbohydrate upon ... 333
—— subjects, adult, protein requirements of, in terms of the protein contained in individual foods and food combinations ... 269
HUMPHREYS, STEWART. See Wintrobe, Stein, Follis and Humphreys ... 395
HUTT, F. B. See Scrimshaw, Hutt and Scrimshaw ... 375

ILLUMINATION, field, and commercial handling as factors in determining the ascorbic acid content of tomatoes received at the cannery ... 425
Influence of ascorbic acid on the activity of gonadotropic hormones in guinea pigs ... 477
Iron, availability of, in Hawaiian-grown vegetables ... 485
—— retention and hemoglobin regeneration, comparative effectiveness of various iron compounds in promoting, by anemic rats 293

JACK, EUGENE L., JAMES L. HENDERSON, DELLA F. REID AND SAMUEL LEPKOVSKY. Nutritional studies on milk fat. II. The growth of young rats fed glyceride fractions separated from milk fat ... 175
—— —— See Henderson, Jack, Lepkosky and Reid ... 169
JOHNSON, ROBERT E., CHARLES R. HENDERSON, PAUL F. ROBINSON AND FRANK C. CONSOLAZIO. Comparative merits of fasting specimens, random specimens and oral loading tests in field nutritional surveys ... 89
JONES, JAMES H. Experimental rickets in the hamster ... 143
Juice, tomato, ascorbic acid content and consistency characteristics of, effect of manufacturing methods on ... 435
JUKES, THOMAS H., JEROME J. OLESON AND ALBERT C. DORNBUSH. Observations on monomethylaminoethanol and dimethylaminoethanol in the diet of chicks ... 219

KEMPSTER, HARRY L. See Richardson, Hogan and Kempster ... 151
KERTESZ, Z. I. See Robinson, Stotz and Kertesz ... 435
KING, CHARLES G. See Langwill, King and MacLeod ... 99
KRAMER, BENJAMIN. See Polskin, Kramer and Sobel ... 451

LANGWILL, KATHERYN E., CHARLES G. KING AND GRACE MACLEOD. Effects of food intake and anoxia upon ascorbic acid excretion, acidity of urine, and survival of male albino rats ... 99
Leguminous seeds, dried, riboflavin, niacin and thiamine content of ... 31
LEPKOVSKY, SAMUEL. See Henderson, Jack, Lepkovsky and Reid ... 169
—— —— —— Jack, Henderson, Reid and Lepkovsky ... 175
Lesions, corneal, healing of, and production of corneal vascularity, effects of light, trauma, riboflavin, and ariboflavinosis on 285

—— of the antrum. Nutritional effects on the gastric mucosa of the rat. I. 301
—— —— —— fundus and rumen. Nutritional effects on the gastric mucosa of the rat. II. 319
LEWIS, GLADYS B. See Bricker, Mitchell and Lewis 269
—— J. M., AND LOGAN T. WILSON. Vitamin A requirements in calves 467
Light, trauma, riboflavin, and ariboflavinosis, effects of, on the production of corneal vascularity and on healing of corneal lesions 285
Live yeast, inefficiency of, as a source of thiamine. Physiological availability of the vitamins. IV. 201
Liver, new factor found in, and riboflavin, studies on the requirements of monkeys for 45
—— oil, fish, women fed, milks of, secretion of vitamin D in 451
Livers, telang, nutritional value of 1
Loading tests, oral, fasting specimens and random specimens, comparative merits of, in field nutritional surveys 89
LOUIS, LUCILLE. See Miller and Louis 485
LOWRY, OLIVER H., AND OTTO A. BESSEY. The effects of light, trauma, riboflavin, and ariboflavinosis on the production of corneal vascularity and on healing of corneal lesions 285

MCCALL, KEITH B. See Cooperman, Waisman, McCall and Elvehjem 45
MCGUIRE, ELINOR W. See Watson, McGuire, Meyer and Hathaway 259
MACLEOD, GRACE. See Caldwell, MacLeod and Sherman 349
—— —— —— Langwill, King and MacLeod 99
MELNICK, DANIEL, MELVIN HOCHBERG AND BERNARD L. OSER. Physiological availability of the vitamins. VI. The effect of adsorbents on thiamine 233
—— —— —— —— —— II. The effect of dietary thiaminase in fish products 81
—— —— —— —— —— I. The human bioassay technic 67
—— —— See Hochberg, Melnick and Oser 193
—— —— —— —— —— —— 201
—— —— —— —— —— —— 225
—— —— —— Oser and Melnick 385
Metabolism, alcohol, as related to the production of thiamine deficiency 127
—— calcium, of preschool children 259
—— vitamin A, effect of soybean phosphatides on 289
Methods, manufacturing, effect of, on the ascorbic acid content and consistency characteristics of tomato juice 435
MEYER, FRIEDA L. See Watson, McGuire, Meyer and Hathaway 259
MILAM, DANIEL F. See Anderson and Milam 11
—— —— —— —— —— —— 17
Milk fat and certain synthetic glycerides, growth of young rats fed, as supplements to a fat-free diet. Nutritional studies on milk fat. I. 169
—— —— nutritional studies on. II. The growth of young rats fed glyceride fractions separated from milk fat 175
—— —— —— —— —— I. The growth of young rats fed milk fat and certain synthetic glycerides as supplements to a fat-free diet 169
Milks of women fed fish liver oil, secretion of vitamin D in 451
MILLER, CAREY D., AND LUCILLE LOUIS. The availability of the iron in Hawaiian-grown vegetables 485
MITCHELL, HAROLD H. See Bricker, Mitchell and Lewis 269
—— —— —— —— Zilcita and Mitchell 147
Monkey, requirements of, studies on, for riboflavin and a new factor found in liver 45
Monomethylaminoethanol and dimethylaminoethanol, observations on, in the diet of chicks 219
MORGAN, AGNES F. See Bentley and Morgan 159
Mucosa, gastric, of the rat, nutritional effects on. I. Lesions of the antrum 301
—— —— —— —— —— —— II. Lesions of the fundus and rumen 319

NELSON, WALTER L. See Somers, Hamner and Nelson 425
Niacin, riboflavin and thiamine content of dried leguminous seeds 31
Nicotinic acid and the level of protein intake in the nutrition of the pig 395
—— —— thiamine and riboflavin retention in preparation of overseas hams and bacons 25
NORRIS, LEO C. See Daniel and Norris 31
Nutrition of the guinea pig, vitamin A and carotene in 159
—— —— —— pig, nicotinic acid and the level of protein intake in 395
Nutritional effects on the gastric mucosa of the rat. I. Lesions of the antrum 301
—— —— —— —— —— —— II. Lesions of the fundus and rumen 319
—— status, biomicroscopy of the eyes in evaluation of. Conjunctival changes 11
—— —— —— —— —— —— Corneal vascularization 17
—— studies on milk fat. II. The growth of young rats fed glyceride fractions separated from milk fat 175
—— —— —— —— —— —— I. The growth of young rats fed milk fat and certain synthetic glycerides as supplements to a fat-free diet 169
—— —— with the duck. I. Purified rations for the duck 37
—— —— —— —— —— —— II. Pyridoxine deficiency 367
—— surveys, field, fasting specimens, random specimens and oral loading tests in, comparative merits of 89
—— value of telang livers 1
Nutritive value of distillers' dried solubles as a source of protein 245
—— —— relative, of vegetable proteins, estimation of, by two chemical methods 209

OBSERVATIONS on monomethylaminoethanol and dimethylaminoethanol in the diet of chicks 219
Oil, fish liver, women fed, milks of, secretion of vitamin D in 451
—— meal phosphorus, soybean, availability of, for the rat 117
—— —— —— —— —— utilization of, enzymatic relationships in, by the rat 183
OLESON, JEROME J. See Jukes, Oleson and Dornbush 219
Oral loading tests, fasting specimens and random specimens, comparative merits of, in field nutritional surveys 89
ORTEN, ALINE U., AND JAMES M. ORTEN. A study of hemoglobin formation following the administration of certain amino acids to rats fed a diet low in protein 137
—— JAMES M. See Orten and Orten 137
OSER, BERNARD L., AND DANIEL MELNICK. Physiological availability to the rat of crude carotene in vegetables 385
OSER, BERNARD L. See Hochberg, Melnick and Oser 193
—— —— —— —— —— —— 225
—— —— —— —— Melnick, Hochberg and Oser 67
—— —— —— —— —— —— —— 81
—— —— —— —— —— —— —— 233
Oxidase, ascorbic acid, dietary, effect of. Physiological availability of the vitamins. III. 193

PAPAYAS and guavas, ascorbic acid in, availability of ... 355
PAVCEK, PAUL L., EDWARD J. HERBST AND CONRAD A. ELVEHJEM. The nutritional value of telang livers ... 1
PHILLIPS, PAUL H. See Spitzer and Phillips ... 183
Phosphatides, soybean, effect of, on vitamin A metabolism ... 239
Phosphorus, soybean oil meal, availability of, for the rat ... 117
—— —— —— —— utilization of, enzymatic relationships in, by the rat ... 183
Physiological availability of the vitamins. VI. The effect of adsorbents on thiamine ... 233
—— —— —— —— —— V. The effect of copper on extra dietary ascorbic acid ... 225
—— —— —— —— III. The effect of dietary ascorbic acid oxidase ... 193
—— —— —— —— II. The effect of dietary thiaminase in fish products ... 81
—— —— —— —— I. The human bioassay technic ... 67
—— —— —— —— IV. The inefficiency of live yeast as a source of thiamine —— —— to the rat of crude carotene in vegetables ... 201
Pig, nutrition of, nicotinic acid and the level of protein intake in ... 385
Poikilocytosis in dairy cattle, therapeutic effect of yeast and pyridoxine on ... 395
Poisoning, experimental selenium, tissues in, elimination and distribution of selenium in ... 413
POLSKIN, LOUIS J., BENJAMIN KRAMER AND ALBERT E. SOBEL. Secretion of vitamin D in milks of women fed fish liver oil ... 443
Poult, turkey, requirement of, for vitamin B_c ... 451
Preschool children, calcium metabolism of ... 151
Products, fish, effect of dietary thiaminase in. Physiological availability of the vitamins. II. ... 259
Protein, diet low in, rats fed, administration of certain amino acids to, study of hemoglobin formation following ... 81
—— distillers' dried solubles as a source of, nutritive value of ... 137
—— intake, level of, and nicotinic acid in the nutrition of the pig ... 245
—— requirements of adult human subjects in terms of the protein contained in individual foods and food combinations ... 395
Proteins, vegetable, relative nutritive value of, estimation of, by two chemical methods ... 269
Purified diets, adult dogs on, studies on the prolonged maintenance of ... 209
—— rations for the duck. Nutritional studies with the duck. I. ... 111
Pyridoxine and yeast, therapeutic effect of, on poikilocytosis in dairy cattle ... 37
—— deficiency. Nutritional studies with the duck. II. ... 413

RAO, M. N. See Hegsted and Rao ... 367
Rat(s), anemic, comparative effectiveness of various iron compounds in promoting iron retention and hemoglobin regeneration by ... 367
—— availability of soybean oil meal phosphorus for ... 293
—— effect of fat upon the utilization of galactose by ... 117
—— enzymatic relationships in the utilization of soybean oil meal phosphorus by ... 147
—— fed a diet low in protein, administration of certain amino acids to, study of hemoglobin formation following ... 183
—— gastric mucosa of, nutritional effects on. I. Lesions of the antrum ... 137
—— —— —— —— —— —— II. Lesions of the fundus and rumen ... 301
—— goiter studies with ... 319
—— male albino, ascorbic acid excretion, acidity of urine, and survival of, effects of food intake and anoxia upon ... 59
—— physiological availability to, of crude carotene in vegetables ... 99
—— young, growth of, fed glyceride fractions separated from milk fat. Nutritional studies on milk fat. II. ... 385
—— —— —— —— —— milk fat and certain synthetic glycerides as supplements to a fat-free diet. Nutritional studies on milk fat. I. ... 175
Rations, purified, for the duck. Nutritional studies with the duck. I. ... 169
Regeneration, hemoglobin, and iron retention, comparative effectiveness of various iron compounds in promoting, by anemic rats ... 37
REID, DELLA F. See Henderson, Jack, Lepkovsky and Reid ... 293
—— —— —— —— Jack, Henderson, Reid and Lepkovsky ... 169
—— J. T., C. F. HUFFMAN AND C. W. DUNCAN. The therapeutic effect of yeast and pyridoxine on poikilocytosis in dairy cattle ... 175
—— —— AND J. F. SYKES. The influence of ascorbic acid on the activity of gonadotropic hormones in guinea pigs ... 413
Requirement of the turkey poult for vitamin B_c ... 477
Requirements of the monkey, studies on, for riboflavin and a new factor found in liver ... 151
—— protein, of adult human subjects in terms of the protein contained in individual foods and food combinations ... 45
—— vitamin A, in calves ... 269
Respiratory quotient, human, response of, after glucose administration, effects of the dietary supply of carbohydrate upon ... 467
Response of the human respiratory quotient after glucose administration, effects of the dietary supply of carbohydrate upon ... 333
Retention, iron, and hemoglobin regeneration comparative effectiveness of various iron compounds in promoting, by anemic rats ... 333
—— thiamine, riboflavin and nicotinic acid, in preparation of overseas hams and bacons ... 293
Riboflavin and a new factor found in liver, studies on requirements of the monkey for ... 25
—— light, trauma, and ariboflavinosis, effects of, on the production of corneal vascularity and on healing of corneal lesions ... 45
—— niacin and thiamine content of dried leguminous seeds ... 285
—— thiamine and nicotinic acid retention in preparation of overseas hams and bacons ... 31
RICHARDSON, LUTHER R., ALBERT G. HOGAN AND HARRY L. KEMPSTER. The requirement of the turkey poult for vitamin B_c ... 25
Rickets, experimental, in the hamster ... 151
ROBINSON, PAUL F. See Johnson, Henderson, Robinson and Consolazio ... 143
—— WILLARD B., ELMER STOTZ AND Z. I. KERTESZ. The effect of manufacturing methods on the ascorbic acid content and consistency characteristics of tomato juice ... 89
ROOT, HOWARD F., AND THORNE M. CARPENTER. The effects of the dietary supply of carbohydrate upon the response of the human respiratory quotient after glucose administration ... 435
ROSENFELD, IRENE, AND A. O. BEATH. The elimination and distribution of selenium in the tissues in experimental selenium poisoning ... 333
Rumen and fundus, lesions of. Nutritional effects on the gastric mucosa of the rat. II. ... 443

SARETT, HERBERT P., AND VERNON H. CHELDELIN. Thiamine, riboflavin and nicotinic acid retention in preparation of overseas hams and bacons ... 319
SCHARF, ALBERT. See Slanetz and Scharf ... 25
SCRIMSHAW, MARY W. See Scrimshaw, Hutt and Scrimshaw ... 239
—— NEVIN S., FREDERICK B. HUTT AND MARY W. SCRIMSHAW, with the assistance of C. R. Sullivan. The effect of genetic variation in the fowl on the thiamine content of the egg ... 375

Secretion of vitamin D in milks of women fed fish liver oil 451
Seeds, dried leguminous, riboflavin, niacin and thiamine content of 31
SEELER, ALBERT O., AND ROBERT H. SILBER. Studies on the prolonged maintenance of adult dogs on purified diets 111
Selenium, elimination and distribution of, in the tissues in experimental selenium poisoning 443
—— poisoning, experimental, tissues in, elimination and distribution of selenium in 443
SHAW, JAMES H. See Halverson, Shaw and Hart 59
SHERMAN, H. C. See Caldwell, MacLeod and Sherman 349
—— —— —— —— Campbell, Udiljak, Yarmolinsky and Sherman 343
SILBER, ROBERT H. See Seeler and Silber 111
SLANETZ, CHARLES A., AND ALBERT SCHARF. Effect of soybean phosphatides on vitamin A metabolism 239
SOBEL, ALBERT E. See Polskin, Kramer and Sobel 451
Solubles, dried, distillers', nutritive value of, as a source of protein 245
SOMERS, G. FRED, KARL C. HAMNER AND WALTER L. NELSON. Field illumination and commercial handling as factors in determining the ascorbic acid content of tomatoes received at the cannery 425
Soybean oil meal phosphorus, availability of, for the rat 117
—— —— —— —— utilization of, enzymatic relationships in, by the rat 183
—— phosphatides, effect of, on vitamin A metabolism 239
SPITZER, ROBERT R., AND PAUL H. PHILLIPS. Enzymatic relationships in the utilization of soybean oil meal phosphorus by the rat 183
—— —— —— —— —— —— —— The availability of soybean oil meal phosphorus for the rat 117
STARE, FREDERICK J. See Hegsted and Stare 37
Status, nutritional, evaluation of, biomicroscopy of the eyes in. Conjunctival changes 11
—— —— —— —— —— —— —— —— Corneal vascularization 17
ST. JOHN, J. L. See Evans and St. John 209
STEIN, HAROLD J. See Wintrobe, Stein, Follis and Humphreys 395
Storage, bodily, of vitamin A in relation to diet and age, studied by means of the antimony trichloride reaction using a photoelectric colorimeter 349
—— —— —— —— —— —— —— —— —— —— —— —— the assay method of single feedings 343
STOTZ, ELMER. See Robinson, Stotz and Kertesz 435
Studies, goiter, with the rat 59
—— on the prolonged maintenance of adult dogs on purified diets 111
—— —— —— requirements of the monkey for riboflavin and a new factor found in liver 45
Study of hemoglobin formation following the administration of certain amino acids to rats fed a diet low in protein 137
SULLIVAN, C. R. See Scrimshaw, Hutt and Scrimshaw 375
Surveys, field nutritional, fasting specimens, random specimens and oral loading tests in, comparative merits of 89
SYKES, J. F. See Reid and Sykes 477
Synthetic glycerides, certain, and milk fat, growth of young rats fed, as supplements to a fat-free diet. Nutritional studies on milk fat. I. 169

TELANG livers, nutritional value of 1
Therapeutic effect of yeast and pyridoxine on poikilocytosis in dairy cattle 413
Thiaminase, dietary, effect of, in fish products. Physiological availability of the vitamins. II. 81
Thiamine content of the egg, effect of genetic variation in the fowl on 375
—— deficiency, alcohol metabolism as related to the production of 127
—— effect of adsorbents on. Physiological availability of the vitamins. VI. 233
—— inefficiency of live yeast as a source of. Physiological availability of the vitamins. IV. 201
—— riboflavin and niacin content of dried leguminous seeds 31
—— —— —— nicotinic acid retention in preparation of overseas hams and bacons 25
Tissues in experimental selenium poisoning, elimination and distribution of selenium in 443
Tomato juice, ascorbic acid content and consistency characteristics of, effect of manufacturing methods on 435
Tomatoes received at the cannery, ascorbic acid content of, field illumination and commercial handling as factors in determining 425
Trauma, light, riboflavin, and ariboflavinosis, effects of, on the production of corneal vascularity and on healing of corneal lesions 285
Turkey poult, requirement of, for vitamin B_c 151

UDILJAK, MADELINE. See Campbell, Udiljak, Yarmolinsky and Sherman 343
Urine, acidity of, ascorbic acid excretion, and survival of male albino rats, effects of food intake and anoxia upon 99
Utilization of galactose by the rat, effect of fat upon 147
—— —— soybean oil meal phosphorus, enzymatic relationships in, by the rat 183

VASCULARITY, corneal, production of, and healing of corneal lesions, effects of light, trauma, riboflavin, and ariboflavinosis on 285
Vascularization, corneal. Biomicroscopy of the eyes in evaluation of nutritional status 17
Vegetable proteins, relative nutritive value of, estimation of, by two chemical methods 209
Vegetables, crude carotene in, physiological availability to the rat of 385
—— Hawaiian-grown, availability of the iron in 485
Vitamin(s) A and carotene in the nutrition of the guinea pig 159
—— —— bodily storage of, in relation to diet and age, studied by means of the antimony trichloride reaction using a photoelectric colorimeter 349
—— —— —— —— —— —— —— —— —— —— —— the assay method of single feedings 343
—— —— metabolism, effect of soybean phosphatides on 239
—— —— requirements in calves 467
—— B_c, requirement of turkey poult for 151
—— D, secretion of, in milks of women fed fish liver oil 451
—— physiological availability of. VI. The effect of adsorbents on thiamine 233
—— —— —— —— V. The effect of copper on extra dietary ascorbic acid 225
—— —— —— —— III. The effect of dietary ascorbic acid oxidase 193
—— —— —— —— II. The effect of dietary thiaminase in fish products 81
—— —— —— —— I. The human bioassay technic 67
—— —— —— —— IV. The inefficiency of live yeast as a source of thiamine 201

WAISMAN, HARRY A. See Cooperman, Waisman, McCall and Elvehjem 45
WATSON, ELLEN K., ELINOR W. MCGUIRE, FRIEDA L. MEYER AND MILICENT L. HATHAWAY. Calcium metabolism of preschool children 259
WESTERFELD, WILFRED W., AND EDWARD A. DOISY, JR. Alcohol metabolism as related to the production of thiamine deficiency 127
WILSON, LOGAN T. See Lewis and Wilson 467

WINTROBE, MAXWELL M., HAROLD J. STEIN, R. H. FOLLIS, JR. AND STEWART HUMPHREYS. Nicotinic acid and the level of protein intake in the nutrition of the pig 395
Women fed fish liver oil, milks of, secretion of vitamin D in 451

YARMOLINSKY, HELEN. See Campbell, Udiljak, Yarmolinsky and Sherman 343
Yeast and pyridoxine, therapeutic effect of, on poikilocytosis in dairy cattle 413
—— live, inefficiency of, as a source of thiamine. Physiological availability of the vitamins. IV. 201
Young rats, growth of, fed glyceride fractions separated from milk fat. Nutritional studies on milk fat. II. 175
—— —— —— —— —— milk fat and certain synthetic glycerides as supplements to a fat-free diet. Nutritional studies on milk fat. I. 169

ZIALCITA, LORENZO P., JR., AND HAROLD H. MITCHELL. The effect of fat upon the utilization of galactose by the rat 147
ZUCKER, LOIS M. See Zucker, Berg and Zucker 301 319
—— THEODORE F., BENJAMIN N. BERG AND LOIS M. ZUCKER. Nutritional effects on the gastric mucosa of the rat. I. Lesions of the antrum 301
—— —— —— —— —— —— —— —— —— —— —— —— —— —— —— II. Lesions of the fundus and rumen 319